PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM  (to be used for all correspondence after initial filing)  Total Number of Pages in This Submission 9		Application Number Filing Date First Named Inventor Art Unit	10/711,198 09/01/2004 Jiunn-Ren Hwang 1756 YOUNG, CHRISTOPHER G		
		Examiner Name			
		Attorney Docket Number	NAUP0493USA4		
	ENC	CLOSURES (Check all	that apply)  After Allowance Communication to TC		

100	ar Hamber o	T ages in This Submission	<u> </u>	Attorney Bocket Number	INACE	0493U3A4		
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Fee Transmittal Form  Fee Attached  Amendment/Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Reply to Missing Parts/ Incomplete Application  Reply to Missing Parts under 37 CFR 1.52 or 1.53		Petition Petition Petition Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD		tion	After Allowance Communication to TC  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Other Enclosure(s) (please Identify below):  1. A copy of the Front Page of Patent 2. A copy of Fee Transmittal 4. Copies of the Notice of Recordation			
			uest for Certificate of		Certificate			
N		SIGNA	TURE	OF APPLICANT, ATTO	ORNEY, O	R AGENT CONS		
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Signati	ure	Countos Ho	=-C					
Printed	Iname	Winston Hsu						
Date AUG 0 1 2006		Reg. No.		Reg. No.	41,526			
I hereb	by certify th			ICATE OF TRANSMISS		LING sited with the United States Postal Service with		
sufficie	sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below							

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04v2)

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SUBMITTED BY			
Signature	Winters How	Registration No. (Attorney/Agent) 41,526	Telephone 3027291562
Name (Print/Type)	Winston Hsu		Date AUS 0 1 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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#### IN THE UNITEDADEPATES PATENT AND TRADEMARK OFFICE

Inventor : Jiunn-Ren Hwang, Jui-Tsen Huang, Chang-Jyh Hsieh

Examiner: YOUNG, CHRISTOPHER G Art Unit: 1756

Docket No.: NAUP0493USA4

Title: OPTICAL PROXIMITY CORRECTION METHOD

To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office Mistake

The name of the assignee listed on the front page of the Patent is incorrect (Attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the name of the assignee from "UNITED ELECTRONICS CORP." to "UNITED MICROELECTRONICS CORP." which was correctly listed on the Fee Transmittal submitted on 05/02/2006 (Attachment 2) and the Notice of Recordation dated 09/01/2004 (Attachment 3).

Respectfully submitted,

Wintentan Date: AUG 0 1 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562 Facsimile: 806-498-6673

e-mail: winstonhsu@naipo.com

(Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan).

Please correct the name of the assignee from "UNITED ELECTRONICS CORP." to "UNITED MICROELECTRONICS CORP."



Attachment 1

(10) Patent No.: US 7,063,923 B2 (45) Date of Patent: Jun. 20, 2006

# (54) OPTICAL PROXIMITY CORRECTION METHOD

(12) United States Patent

- (75) Inventors: Jiunn-Ren Hwang, Hsin-Chu (TW); Jui-Tsen Huang, Taipei (TW); Chang-Jyh Hsieh, Hsin-Chu (TW)
- (73) Assignee: United Electronics Corp., Hsin-Chu
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 10/711,198

Hwang et al.

- (22) Filed: Sep. 1, 2004
- (65) Prior Publication Data

# US 2005/0009344 A1 Jan. 13, 2005

- Related U.S. Application Data

  (63) Continuation-in-part of application No. 10/064,413, filed on Jul. 11, 2002, now abandoned.
- (51) Int. Cl. G03F 9/00

(2006.01)

- (52) U.S. Cl. 430/5; 430/30

See application file for complete search history.

## (56) References Cited

## U.S. PATENT DOCUMENTS

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JP	6-266095	9/1994
JP	11-102063	4/1999

\* cited by examiner

Primary Examiner—Christopher G. Young (74) Attorney, Agent, or Firm—Winston Hsu

(57) ABSTRACT

An integrated circuit layout includes dense figures and at least one isolated figure. A plurality of dummy patterns are formed to surround the isolated figure, so as to reduce the difference in pattern density of the integrated circuit layout. A transmitted light of the dummy patterns provides a phase difference of 0 or 180 degrees relative to a transmitted light of the integrated circuit layout. The integrated circuit layout and the plurality of dummy patterns are formed on a photo-mask.

14 Claims, 3 Drawing Sheets

# Attachment 2

# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571) 273-2885

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Janice Chen (Depositor's name) Janie Chen (Signature) 05/02/2006 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIDMATIONING
10/711,198	09/01/2004	lium Pon Hunna		CONFIRMATION NO.
CITILE OF INVENTION:		Jiunn-Ren Hwang	NAUP0493USA4	5197
TITLE OF INVENTION: C	PROXIMITY CO	RRECTION METHOD		

**PUBLICATION FEE** 

ISSUE FEE

	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	D 4 200 D 4 00
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Change of correspond Address form PTO/SB/12	ence address (or Change of	Correspondence	(1) the na or agents	mes of up to 3 registered paten OR, alternatively,	t attorneys 1 Winst	ton Hsu
"Fee Address" indicati	on (or "Fee Address" Indica more recent) attached. Use	tion form of a Customer	2 registered	me of a single firm (having as a attorney or agent) and the name of patent attorneys or agents. If name will be printed.		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE DATENT	F (====================================		
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee of this form is NO	data will app	ear on the patent. If an assigne for filing an assignment.	ee is identified below, the d	locument has been filed for
(A) NAME OF ASSIGNE	E	(B	) RESIDENC	CE: (CITY and STATE OR COU	NTRY)	
UNITED MICROE	LECTRONICS COR	P	lo.3, Li-Hs	sin Road 2, Science-Bas	•	Isin-Chu City,
Please check the appropriate	assignee category or categor	ies (will not be no	aiwan, R.	U.U.		
4a. The following fee(s) are e	nclosed.	les (will not be pri	nted on the p	atent): Individual Co	poration or other private gro	oup entity Government
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5. Change in Entity Status (1	Same at the second seco		Deposit Acco	ount Number 50-3105	(enclose an extra co	opy of this form).
a. Applicant claims SM	ALL ENTITY status. See 3		_			
The Director of the Lightness	ALL ENTITY status. See 3	7 CFR 1.27.	b. Applica	ant is no longer claiming SMALI	L ENTITY status. See 37 CF	R 1.27(g)(2).
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an application. Confidentiality submitting the completed appl this form and/or suggestions for Box 1450, Alexandria, Virgini	is governed by 35 U.S.C. 1 ication form to the USPTO or reducing this burden, shows a 22313-1450. DO NOT SE	22 and 37 CFR 1. Time will vary duld be sent to the (ND FEES OR CO	Is required to 14. This colle epending upo Chief Informa MPLETED	o obtain or retain a benefit by the ection is estimated to take 12 min the individual case. Any comation Officer, U.S. Patent and T. FORMS TO THIS ADDRESS FORMS	public which is to file (and nutes to complete, including ments on the amount of tim ademark Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O.

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9/13

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RECORDATION DATE: 09/01/2004

REEL/FRAME: 015061/0678

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: NAUP0493USA4

ASSIGNOR:

HWANG, JIUNN-REN

DOC DATE: 07/30/2004

ASSIGNOR:

HUANG, JUI-TSEN

DOC DATE: 07/30/2004

ASSIGNOR:

HSIEH, CHANG-JYH

DOC DATE: 07/30/2004

**ASSIGNEE:** 

UNITED MICROELECTRONICS CORP.
NO.3, LI-HSIN ROAD 2, SCIENCE-BASED INDUSTRIAL

PARK

HSIN-CHU CITY, TAIWAN

015061/0678 PAGE 2

SERIAL NUMBER: 10711198

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: OPTICAL PROXIMITY CORRECTION METHOD

TONYA LEE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

### PATENT ASSIGNMENT

**NEW ASSIGNMENT** 

Electronic Version v08 Stylesheet Version v02

09/01/2004 800013504

SUBMISSION TYPE:

APPLICATION NUMBER 10/711198

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NATURE OF CONVEYANCE: ASSIGNMENT OF ASSIGNOR'S INTEREST

### **CONVEYING PARTY DATA**

Name	Execution Date		
Jiunn-Ren Hwang	2004-07-30		
Jui-Tsen Huang	2004-07-30		
Chang-Jyh Hsieh	2004-07-30		

### **RECEIVING PARTY DATA**

Name	Street Address	Internal Address	City	State/Country	Postal Code
UNITED MICROELECTRONICS CORP.	No.3, Li-Hsin Road 2, Science-Based Industrial	Park	Hsin-Chu City	TAIWAN	

## **CORRESPONDENCE DATA**

FAX NUMBER: 886229295950

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CUSTOMER NUMBER: 027765

NAME OF PERSON SIGNING: WINSTON HSU JATE SIGNED: 2004-08-30

Total Attachments: 2

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